



8175

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

RB PWC38147
Job Sheet 187368



Part No: RB PWC38147

Job Qty: 14 pcs

Part Name: Oil Drain Tool



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 12/3/18

Job Tracking No:

Due Date: 2/18/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: IPP Rev A 17.11.08 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Small Fab - 1	14 pcs	2/18/19		0.00	14.00	Small Fab - 1		MLL
							Small Fab - 2		
							Small Fab - 3		
							Small Fab - 4		
							Small Fab - 5		
							Small Fab - 6		
							Small Fab - 7		
120	QC 5	14 pcs	2/18/19		0.00	0.00	QC 5 - 10		PS 19-02-19
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 38		
							QC 5 - 42		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
130	Packaging 3-1 - Stock - B4B	14 pcs	2/18/19		0.00	0.00	Packaging 3 - 1 - B4B		DAS 28 9-89
							Packaging 3 - 2 - B4B		
							Packaging 3 - 3 - B4B		
							Packaging 3 - 4 - B4B		
							Packaging 3 - 5 - B4B		
							Packaging 3 - 6 - B4B		



Container No: S154440



Part: RB PWC38147

Job No: 187368

Serial No/Batch: S154440

Revision: A

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 02/16/19

Plex 1/23/19 10:40 AM Dart.Hadley.Shannon

sold

					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
140 QC 21 - FG	14 pcs	2/18/19	0.00	0.00	QC 21 - FG - 21	21
					QC 21 - FG - 70	70

FEB 19 2019

Part Op 110 - Small Fab - Assemble as per DWG. Sheet 1 - Put sponge and assembly in box Install a 1.0" long, 0.38" OD, 0.25" ID Descriptions: piece of Stainless Steel into one end of the Kuri-Tech Hose until flush. Attach the modified end of the Kuri-Tech Hose to the Coupling before placing tool into packaging (if applicable).
 120 - QC5- Inspect part completeness to step on W/O
 130 - Identify as per dwg & Stock Location: _____
 140 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
139-31	Plastic Box	14 Ea (1 ea)	110-Small Fab - 1	5135774 41601
4198T506	O-Ring	14 Ea (1 ea)	110-Small Fab - 1	5027239
51495K116	COUPLING 1/2" NCKL PLTD BRASS	14 Ea (1 ea)	110-Small Fab - 1	5147991
K010-0608	Hose Ø1/2 OD x Ø3/8 ID	84 ft (6 ea)	110-Small Fab - 1	5126670
PAD210	Foam Ø1 X 1	1.5400 sf (.11 ea)	110-Small Fab - 1	5021250
RB PWC38147-1	Drain Quill	14 pcs (1 ea)	110-Small Fab - 1	5142579
RB PWC38147-3	Hose End	14 pcs (1 ea)	110-Small Fab - 1	5143209
RB PWC38147-5	Connector	14 pcs (1 ea)	110-Small Fab - 1	5141946
M304TR 0.375W.065				5145223

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Small Fab - 1	139-31	14	49	0
	4198T506	14	51	0
	51495K116	14	43	0
	K010-0608	84	279	0
	PAD210	2	12	0
	RB PWC38147-1	14	21	0
	RB PWC38147-3	14	22	0
	RB PWC38147-5	14	20	0

Part Specifications
Specifications could not be found.

Plex 1/23/19 10:40 AM Dart.Hadley.Shannon



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Part Name: Oil Drain Tool



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Job Created: 12/3/18

Job Tracking No:

Due Date: 2/18/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: IPP Rev A 17.11.08 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	14 Ea		2/18/19	0.00	0.00	Start Up Small Fab-2		
110	Small Fab	14 pcs		2/18/19	0.00	14.00	Small Fab		
120	QC	14 pcs		2/18/19	0.00	0.00	QC5		
130	Packaging	14 pcs		2/18/19	0.00	0.00	Packaging3		
140	QC21-FG	14 Ea		2/18/19	0.00	0.00	QC21		

Part Op 90 - ***See engineering for sign off of packaging sponge. Was 7271t32 Is PAD210*** ***See engineering for sign off of o
Descriptions: rings WAS 446AT531 NOW 4198T506***

110 - -Assemble as per DWG. Sheet 1 -Put sponge and assembly in box Install a 1.0" long, 0.38" OD, 0.25" ID piece of
Stainless Steel into one end of the Kuri-Tech Hose until flush. Attach the modified end of the Kuri-Tech Hose to the
Coupling before placing tool into packaging (if applicable).

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
139-31	Plastic Box	14 Ea (1 ea)	90-Start up Operation	
4198T506	O-Ring	14 Ea (1 ea)	90-Start up Operation	
51495K116	COUPLING 1/2" NCKL PLTD BRASS	14 Ea (1 ea)	90-Start up Operation	
K010-0608	Hose Ø1/2 OD x Ø3/8 ID	84 ft (6 ea)	90-Start up Operation	
PAD210	Foam Ø1 X 1	1.5400 sf (.11 ea)	90-Start up Operation	
RB PWC38147-1	Drain Quill	14 Ea (1 ea)	90-Start up Operation	
RB PWC38147-3	Hose End	14 Ea (1 ea)	90-Start up Operation	
RB PWC38147-5	Connector	14 Ea (1 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	139-31	14	9	0
	4198T506	14	51	0
	51495K116	14	51	0
	K010-0608	84	371	0
	PAD210	2	11	0
	RB PWC38147-1	14	1	0
	RB PWC38147-3 CONV	14	0	0
	RB PWC38147-5 STASQ	14	0	0

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

Part Specifications

Specifications could not be found.

Plex 12/3/18 11:39 AM Dart.lajeunesse.marie

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

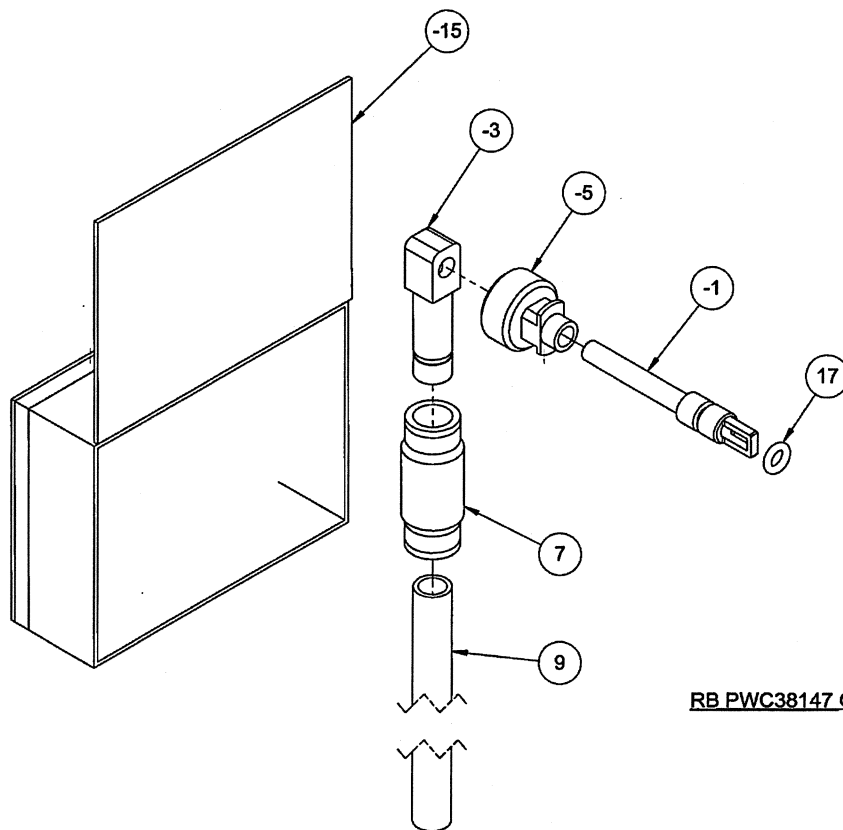
NCR No. _____

Route update only ☐

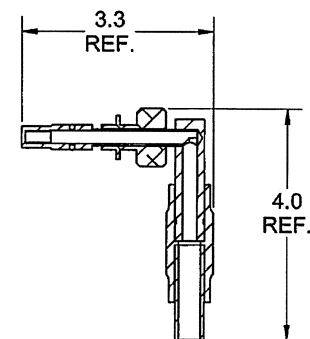
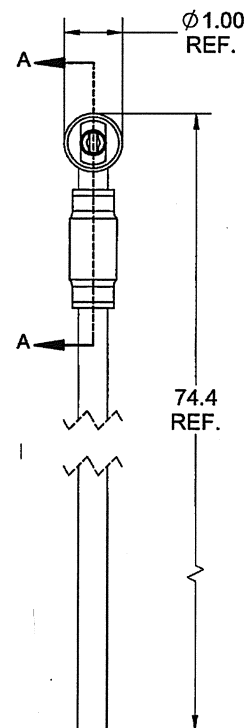
Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

ITEM #	QTY	PART #	TITLE	PG
-1	1	RB PWC38147-1	DRAIN QUILL	2
-3	1	RB PWC38147-3	HOSE END	3
-5	1	RB PWC38147-5	CONNECTOR	4
-15	1	RB PWC38147-15	PACKAGING ASSY	5
7	1	McMaster#51495K116	COUPLING 1/2" DIA	-
9	1	KURI TECH #KO10-0608	HOSE 1/2" OD x 3/8" ID x 6 ft LG.	-
17	1	McMaster#446AT531	MIL SPEC. OIL-RESISTANT BUNA-N O-RING 1/4" ID. X 7/16" OD.	-

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-890	17.11.07	VM	WM



RB PWC38147 OIL DRAIN TOOL



SECTION A-A

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) HEAT TREAT: N/A
 - 4) SPEC: N/A
 - 5) BREAK ALL SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) REF. PRATT & WHITNEY T/N: PWC38147 B.

187-03
NO. 187-03
WORK ORDER
WITHOUT NOTICE
SUBJECT TO AMENDMENT
UNCONTROLLED COPY
ENGINEERING
RETURN TO
SHOP COPY

DART AEROSPACE Hawkesbury, Ontario, Canada	
TITLE OIL DRAIN TOOL	
DWG NO. RB PWC38147	REV A
DESIGN BY: VM 9/13/2017	XXX 1.003 FRACTIONS 2/16
DRAWN BY: VM 10/30/2017	XX 1.01 ANGLES 5.5°
CHECKED: SAC 10/30/2017	1. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
MFG. APPR: DD 10/31/2017	2. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
APPROVED: VM 11/07/2017	3. DIMENSIONAL LIMITS APPLY AFTER PLATING
DATE: 10/30/2017	
SCALE: NTS	WEIGHT: SHEET 1 OF 5
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